

## EAST Search History

## EAST Search History (Prior Art)

| Ref # | Hits | Search Query                                | DBs                                      | Default Operator | Plurals | Time Stamp          |
|-------|------|---|--|------------------|---------|---------------------|
| L1    | 3    | "2003272121"                                | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR               | ON      | 2010/05/07<br>09:34 |
| S1    | 21   | ("6468670")                                 | US-PGPUB;<br>USPAT; JPO;<br>DERWENT      | OR               | ON      | 2007/08/06<br>09:02 |
| S2    | 21   | S1 and perpendicular                        | US-PGPUB;<br>USPAT; JPO;<br>DERWENT      | OR               | ON      | 2007/08/06<br>09:02 |
| S3    | 4    | S2 and ferromagnetic<br>adj layer           | US-PGPUB;<br>USPAT; JPO;<br>DERWENT      | OR               | ON      | 2007/08/06<br>09:41 |
| S4    | 2    | S3 and oxide                                | US-PGPUB;<br>USPAT; JPO;<br>DERWENT      | OR               | ON      | 2007/08/06<br>09:03 |
| S5    | 2    | S4 and cobalt                               | US-PGPUB;<br>USPAT; JPO;<br>DERWENT      | OR               | ON      | 2007/08/06<br>09:03 |
| S6    | 4442 | perpendicular adj<br>magnetic adj recording | US-PGPUB;<br>USPAT; JPO;<br>DERWENT      | OR               | ON      | 2007/08/06<br>09:42 |
| S7    | 1187 | S6 and ferromagnetic                        | US-PGPUB;<br>USPAT; JPO;<br>DERWENT      | OR               | ON      | 2007/08/06<br>09:42 |
| S8    | 291  | S7 and granular                             | US-PGPUB;<br>USPAT; JPO;<br>DERWENT      | OR               | ON      | 2007/08/06<br>09:42 |
| S9    | 242  | S8 and oxide                                | US-PGPUB;<br>USPAT; JPO;<br>DERWENT      | OR               | ON      | 2007/08/06<br>09:43 |
| S10   | 126  | S9 and cobalt and<br>alloy                  | US-PGPUB;<br>USPAT; JPO;<br>DERWENT      | OR               | ON      | 2007/08/06<br>09:43 |
| S11   | 0    | S10 and Pt,Pd                               | US-PGPUB;<br>USPAT; JPO;<br>DERWENT      | OR               | ON      | 2007/08/06<br>09:44 |
| S12   | 100  | S10 and Pt                                  | US-PGPUB;<br>USPAT; JPO;<br>DERWENT      | OR               | ON      | 2007/08/06<br>09:44 |

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| S13 | 28  | S12 and (atomic or at)<br>adj ("% or percent\$3)         | US-PGPUB;<br>USPAT; JPO;<br>DERWENT      | OR | ON | 2007/08/06<br>09:45 |
| S14 | 23  | S13 and grain  | US-PGPUB;<br>USPAT; JPO;<br>DERWENT      | OR | ON | 2007/08/06<br>09:46 |
| S15 | 17  | S14 and boundary   | US-PGPUB;<br>USPAT; JPO;<br>DERWENT      | OR | ON | 2007/08/06<br>09:46 |
| S16 | 8   | S15 and spacer   | US-PGPUB;<br>USPAT; JPO;<br>DERWENT      | OR | ON | 2007/08/06<br>09:46 |
| S17 | 8   | S16 and (argon or Ar)                                    | US-PGPUB;<br>USPAT; JPO;<br>DERWENT      | OR | ON | 2007/08/06<br>09:47 |
| S18 | 8   | S17 and pressure   | US-PGPUB;<br>USPAT; JPO;<br>DERWENT      | OR | ON | 2007/08/06<br>09:48 |
| S19 | 1   | (US-20030017364-\$).<br>did.                             | US-PGPUB                                 | OR | ON | 2007/08/06<br>10:06 |
| S20 | 0   | (US-20030017364-\$).<br>did. and granular with<br>method | US-PGPUB                                 | OR | ON | 2007/08/06<br>10:06 |
| S21 | 0   | (US-20030017364-\$).<br>did. and granular<br>same method | US-PGPUB                                 | OR | ON | 2007/08/06<br>10:06 |
| S22 | 1   | (US-20030017364-\$).<br>did. and granular and<br>method  | US-PGPUB                                 | OR | ON | 2007/08/06<br>10:52 |
| S23 | 123 | Sonobe.in.   | US-PGPUB                                 | OR | ON | 2007/08/06<br>10:53 |
| S24 | 4   | S23 and magnetic adj<br>recording                        | US-PGPUB                                 | OR | ON | 2007/08/06<br>10:53 |
| S25 | 2   | "20020012816"  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/09/20<br>22:17 |
| S26 | 2   | "20010051287"  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/09/20<br>22:17 |
| S27 | 8   | "6830824"  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/09/20<br>22:18 |
| S28 | 3   | "6627310"  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/09/20<br>22:18 |

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| S29 | 14   | S25 S26 S27 S28  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/09/20<br>22:20 |
| S30 | 5    | S29 and granular   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/09/20<br>22:46 |
| S31 | 4    | S30 and (CoCrPt,<br>CoPt, CoPd, FePt,<br>CoPt, and CoPd)   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/09/20<br>22:47 |
| S32 | 3    | S31 and oxide with<br>(silicon, Si)  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/09/20<br>22:47 |
| S33 | 3    | S32 and (Pt, Pd)   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/09/20<br>22:48 |
| S34 | 3    | S32 and (Pd)   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2008/09/20<br>22:48 |
| S35 | 1    | "10576755"   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2009/04/10<br>09:46 |
| S36 | 1    | (US-6830824-\$).did.   | USPAT                                    | OR | ON | 2009/04/10<br>11:06 |
| S37 | 1    | S36 and co with cr<br>with pt  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2009/04/10<br>11:06 |
| S38 | 1    | S36 and (Co with Cr<br>with Pt, Co with Pt, Co<br>with Pd, Fe with Pt, Co<br>with Pt, and Co with<br>Pd) | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2009/04/10<br>11:12 |
| S39 | 5935 | perpendicular adj<br>magnetic adj recording  | US-PGPUB;<br>USPAT; JPO;<br>DERWENT      | OR | ON | 2009/04/10<br>12:38 |
| S40 | 1723 | S39 and ferromagnetic  | US-PGPUB;<br>USPAT; JPO;<br>DERWENT      | OR | ON | 2009/04/10<br>12:38 |
| S41 | 434  | S40 and granular   | US-PGPUB;<br>USPAT; JPO;<br>DERWENT      | OR | ON | 2009/04/10<br>12:38 |
| S42 | 362  | S41 and oxide  | US-PGPUB;<br>USPAT; JPO;<br>DERWENT      | OR | ON | 2009/04/10<br>12:38 |
| S43 | 193  | S42 and cobalt and<br>alloy  | US-PGPUB;<br>USPAT; JPO;<br>DERWENT      | OR | ON | 2009/04/10<br>12:38 |

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| S44 | 150 | S43 and Pt   | US-PGPUB;<br>USPAT; JPO;<br>DERWENT | OR | ON | 2009/04/10<br>12:38 |
| S45 | 50  | S44 and (atomic or at)<br>adj ("% or percent\$3)       | US-PGPUB;<br>USPAT; JPO;<br>DERWENT | OR | ON | 2009/04/10<br>12:38 |
| S46 | 41  | S45 and grain  | US-PGPUB;<br>USPAT; JPO;<br>DERWENT | OR | ON | 2009/04/10<br>12:39 |
| S47 | 33  | S46 and boundary                                       | US-PGPUB;<br>USPAT; JPO;<br>DERWENT | OR | ON | 2009/04/10<br>12:39 |
| S48 | 12  | S47 and spacer   | US-PGPUB;<br>USPAT; JPO;<br>DERWENT | OR | ON | 2009/04/10<br>12:39 |
| S49 | 11  | S48 and (argon or Ar)                                  | US-PGPUB;<br>USPAT; JPO;<br>DERWENT | OR | ON | 2009/04/10<br>12:39 |
| S50 | 1   | "10576755"   | US-PGPUB;<br>USPAT; JPO;<br>DERWENT | OR | ON | 2009/11/02<br>12:51 |
| S51 | 737 | 428/827-829.ccls.                                      | US-PGPUB;<br>USPAT; JPO;<br>DERWENT | OR | ON | 2009/11/02<br>15:00 |
| S52 | 146 | S51 and (non<br>\$1granular,<br>continuous) with layer | US-PGPUB;<br>USPAT; JPO;<br>DERWENT | OR | ON | 2009/11/02<br>15:01 |
| S53 | 114 | S52 and (amorphous,<br>crystalline)                    | US-PGPUB;<br>USPAT; JPO;<br>DERWENT | OR | ON | 2009/11/02<br>15:01 |
| S54 | 7   | S53 and multiple with<br>soft                          | US-PGPUB;<br>USPAT; JPO;<br>DERWENT | OR | ON | 2009/11/02<br>15:02 |
| S55 | 2   | "20040058197"  | US-PGPUB;<br>USPAT; JPO;<br>DERWENT | OR | ON | 2009/11/02<br>15:03 |
| S56 | 0   | S55 and substate with<br>"fig. 3"                      | US-PGPUB;<br>USPAT; JPO;<br>DERWENT | OR | ON | 2009/11/02<br>15:20 |
| S57 | 0   | S55 and substate                                       | US-PGPUB;<br>USPAT; JPO;<br>DERWENT | OR | ON | 2009/11/02<br>15:20 |
| S58 | 2   | S55 and substrate                                      | US-PGPUB;<br>USPAT; JPO;<br>DERWENT | OR | ON | 2009/11/02<br>15:20 |
| S59 | 1   | S55 and granular with<br>Co                            | US-PGPUB;<br>USPAT; JPO;<br>DERWENT | OR | ON | 2009/11/02<br>15:46 |

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| S60 | 1  | S55 and granular  | US-PGPUB;<br>USPAT; JPO;<br>DERWENT | OR | ON | 2009/11/02<br>15:47 |
| S61 | 35 | "6468670"   | US-PGPUB;<br>USPAT; JPO;<br>DERWENT | OR | ON | 2009/11/02<br>15:48 |
| S62 | 4  | S54 and atomic  | US-PGPUB;<br>USPAT; JPO;<br>DERWENT | OR | ON | 2009/11/02<br>15:51 |
| S63 | 0  | S54 and grain with<br>size with "%"                         | US-PGPUB;<br>USPAT; JPO;<br>DERWENT | OR | ON | 2009/11/02<br>15:53 |
| S64 | 0  | S54 and grain with<br>size same "%"                         | US-PGPUB;<br>USPAT; JPO;<br>DERWENT | OR | ON | 2009/11/02<br>15:53 |
| S65 | 2  | S54 and grain with<br>size and "%"                          | US-PGPUB;<br>USPAT; JPO;<br>DERWENT | OR | ON | 2009/11/02<br>15:54 |
| S66 | 0  | S54 and Si with "%"   | US-PGPUB;<br>USPAT; JPO;<br>DERWENT | OR | ON | 2009/11/02<br>15:55 |
| S67 | 0  | S54 and Si same "%"   | US-PGPUB;<br>USPAT; JPO;<br>DERWENT | OR | ON | 2009/11/02<br>15:55 |
| S68 | 0  | S54 and "SiO.sub.2"<br>same "%"                             | US-PGPUB;<br>USPAT; JPO;<br>DERWENT | OR | ON | 2009/11/02<br>15:56 |
| S69 | 16 | S53 and "SiO.sub.2"<br>same "%"                             | US-PGPUB;<br>USPAT; JPO;<br>DERWENT | OR | ON | 2009/11/02<br>15:56 |
| S70 | 7  | S53 and "SiO.sub.2"<br>same "%" not mol                     | US-PGPUB;<br>USPAT; JPO;<br>DERWENT | OR | ON | 2009/11/02<br>15:57 |
| S71 | 2  | S53 and "SiO.sub.2"<br>with "%" not mol                     | US-PGPUB;<br>USPAT; JPO;<br>DERWENT | OR | ON | 2009/11/02<br>16:00 |
| S72 | 2  | S52 and "SiO.sub.2"<br>with "%" not mol                     | US-PGPUB;<br>USPAT; JPO;<br>DERWENT | OR | ON | 2009/11/02<br>16:00 |
| S73 | 26 | S51 and "SiO.sub.2"<br>with "%" not mol                     | US-PGPUB;<br>USPAT; JPO;<br>DERWENT | OR | ON | 2009/11/02<br>16:01 |
| S74 | 16 | S73 and granular  | US-PGPUB;<br>USPAT; JPO;<br>DERWENT | OR | ON | 2009/11/02<br>16:01 |
| S75 | 6  | S51 and (granular<br>same "SiO.sub.2" with<br>"% " not mol) | US-PGPUB;<br>USPAT; JPO;<br>DERWENT | OR | ON | 2009/11/02<br>16:01 |

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| S76 | 71 | (granular same "SiO.<br>sub.2" with "%" not<br>mol)    | US-PGPUB;<br>USPAT; JPO;<br>DERWENT      | OR | ON | 2009/11/02<br>16:05 |
| S77 | 12 | S76 and (non<br>\$1granular,<br>continuous) with layer | US-PGPUB;<br>USPAT; JPO;<br>DERWENT      | OR | ON | 2009/11/02<br>16:05 |
| S78 | 2  | "6468670".pn.  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2009/11/02<br>16:38 |
| S79 | 1  | S78 and Pt with layer                                  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | ON | 2009/11/02<br>16:39 |

**EAST Search History (Interference)**

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